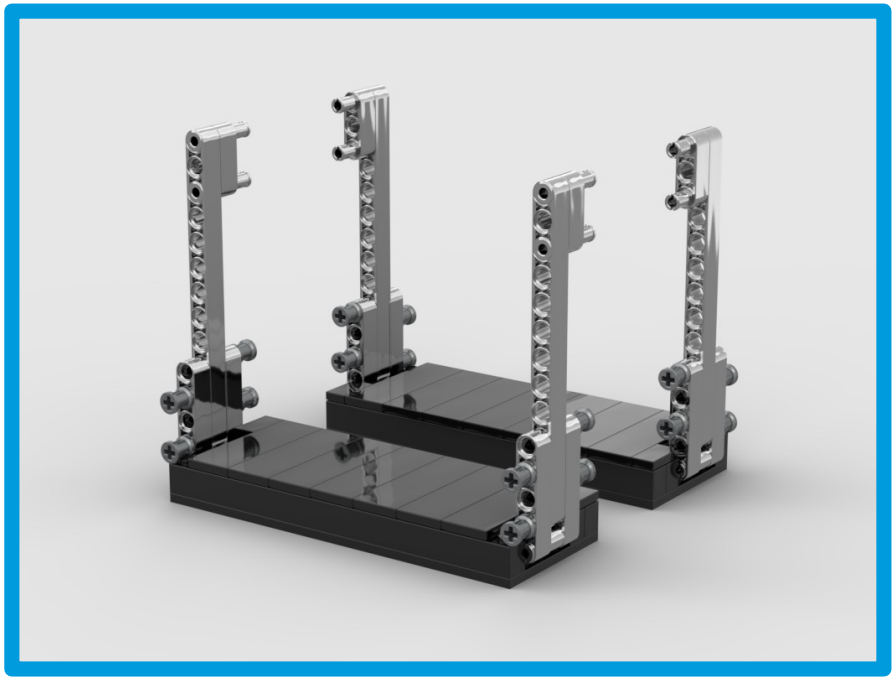
Mounting Bracket Build Instructions For The

LEGO UCS Millennium Falcon #75192



Courtesy Of TheTuxfan

Introduction

The aim of these build instructions is to allow any owner of the **LEGO UCS Millennium Falcon 75192** to reproduce the mounting and display option that can be seen in the following YouTube video: https://www.youtube.com/watch?v=p8oWE9p11Cc

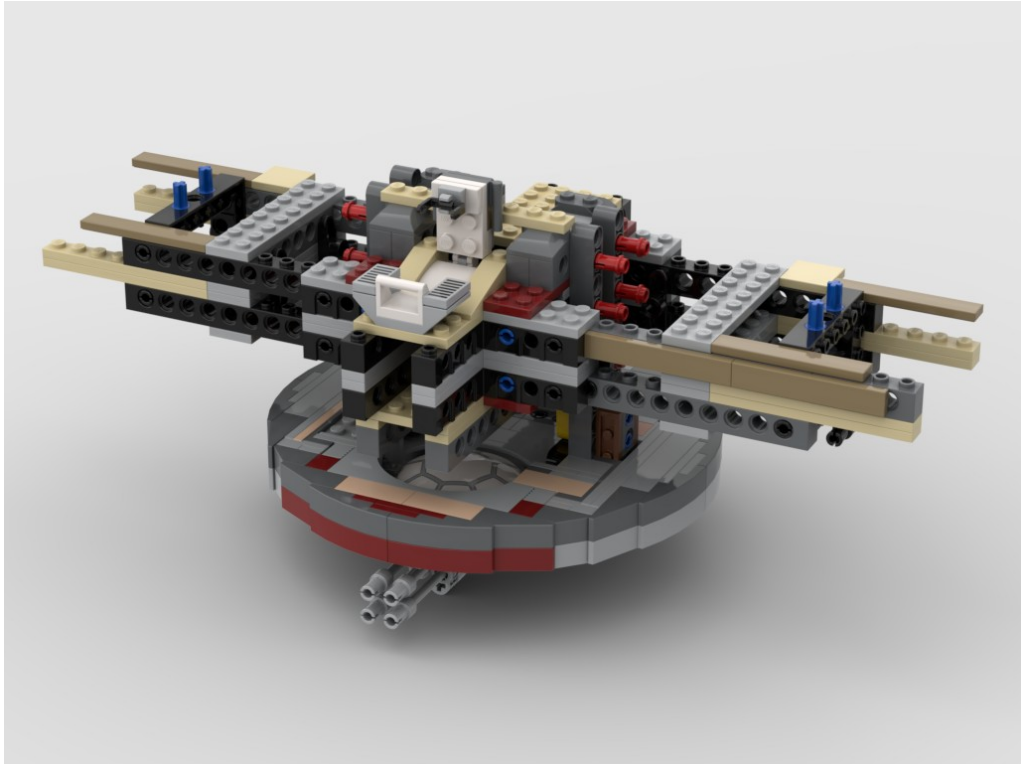
The mounting bracket described here relies on the strength of the metal Technic parts that we've sourced from MTP (https://metal-technic-parts.com/) to handle the weight of this huge LEGO build. For the sake of the expensive LEGO set that you've put so many hours into building, we must warn against trying to build this bracket with standard plastic Technic parts – This will likely end in tears!

Whilst we have chosen to attach the mounting bracket to an articulated monitor swing arm in our example, the mounting bracket detailed in these instructions can just as easily be attached to any level'ish surface that you choose which will allow you to display your build as you see fit.

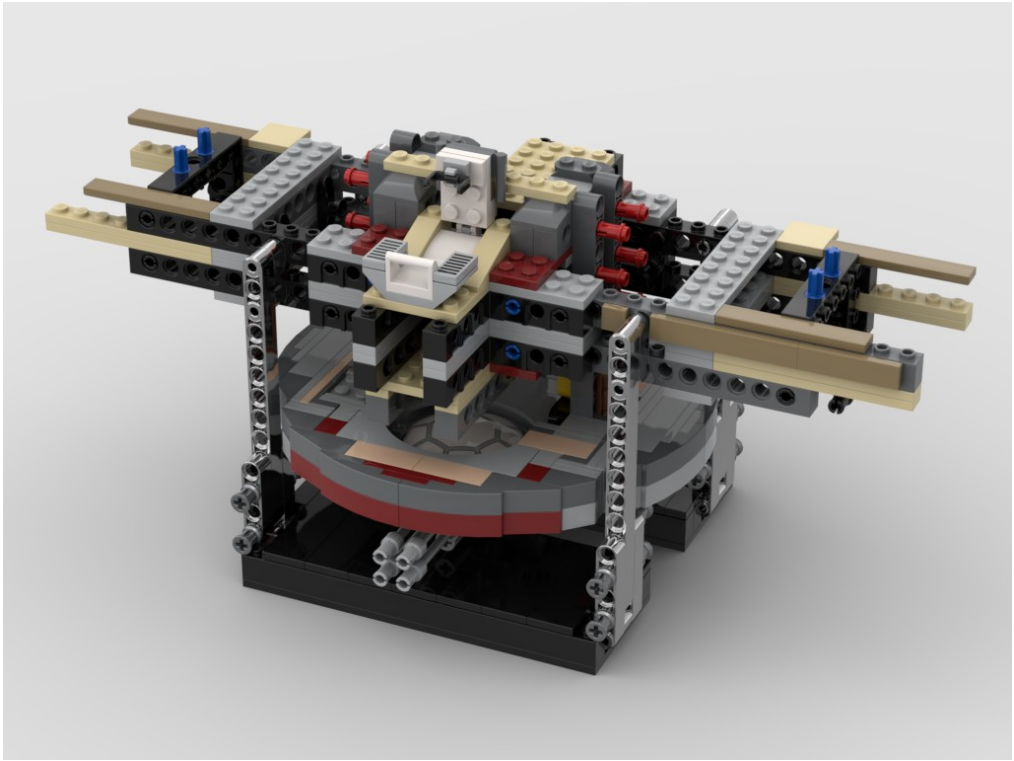
We hope that this helps you achieve the display option that you are after.

TheTuxfan

Cutaway View of Current State vs. End Goal



Sub Frame and Lower Turret after standard build



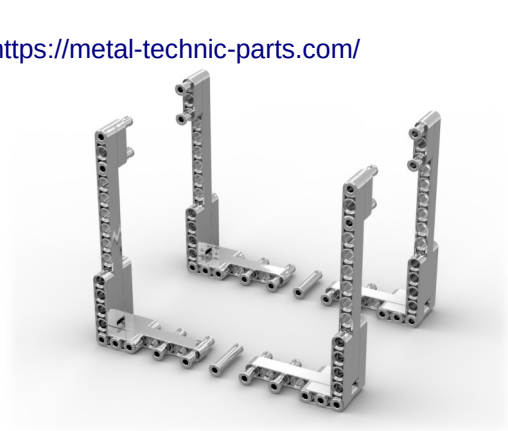
Mounting Bracket attached to the Sub Frame

Parts Required

https://metal-technic-parts.com/

1 x

Click Here to go directly to the bracket kit on the MTP site



MOC Mounting Display Bracket kit for LEGO UCS Millennium Falcon #75192 by TheTuxfan

Optional parts to attach the Display Plaque if desired

2 x
Bracket 1 x 2 - 2 x 2
44728
Black

1 x
Plate 2 x 6
3795
Black

https://www.bricklink.com/

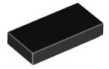
2 x
Plate 6 x 16
3027
Black

6 x
Brick 1 x 16
2465
Black

4 x
Technic, Brick 1 x 10 with Holes
2730
Black

2 x
Technic, Brick 1 x 2 with Hole
3700
Black

14 x
Tile 2 x 6
69729
Black

4 x 
Tile 1 x 2
3069
Black

16 x
Technic, Pin 3L with Friction Ridges and Stop Bush
32054
Flat Silver

1 x
Tile 1 x 1
3070
Dark Tan

1 x
Tile 1 x 4
2431
Dark Tan

1 x
Technic, Pin 1/2 without Friction Ridges
4274
Blue

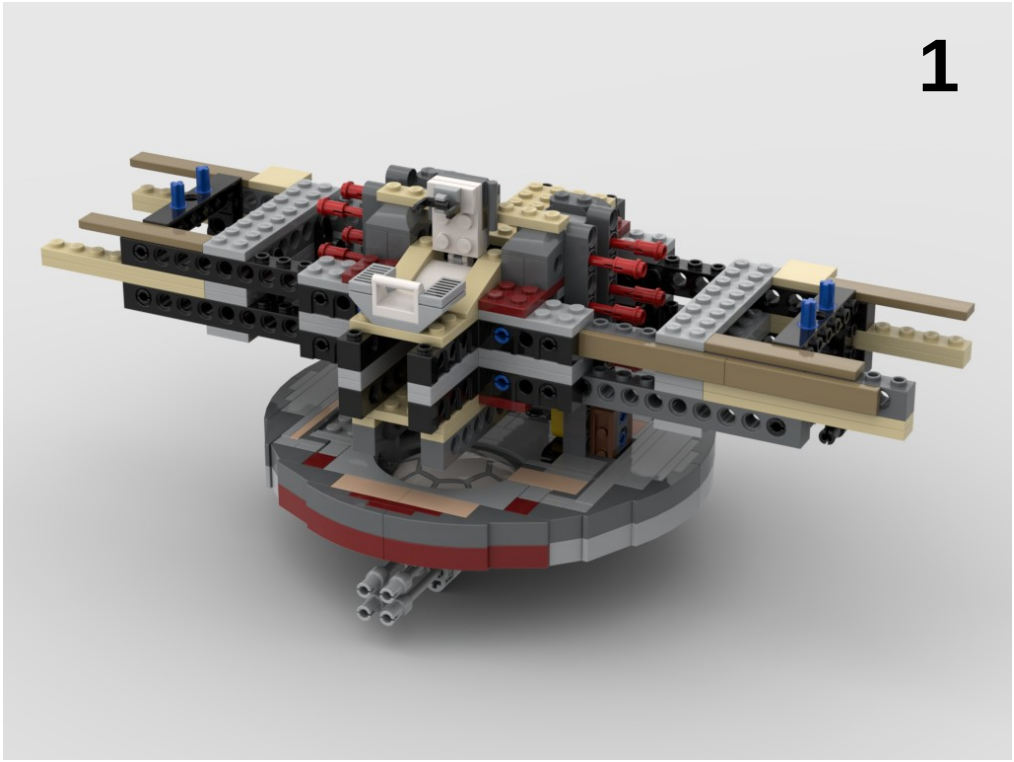
1 x
Slope 45 2 x 2
3039
Dark Bluish Gray

3 x
Slope 45 2 x 1
3040
Dark Bluish Gray

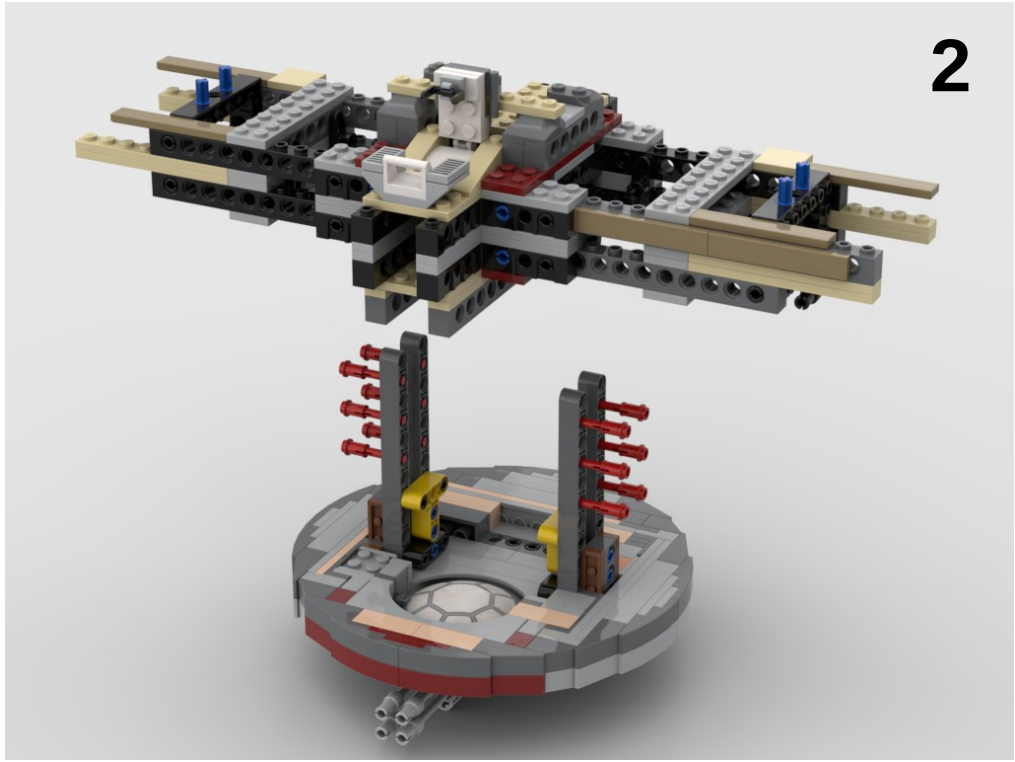
3 x
Slope 45 2 x 1
3040
Light Bluish Gray

6 x
Plate 2 x 2
3022
Light Bluish Gray

Step 1: Remove the Lower Turret



Extract the 12 red Technic pins



Remove the Lower Turret from the bottom of the build

Step 2: Modify the Dark Tan Trim

Parts Required:

1 x
Tile 1 x 1
3070
Dark Tan

1 x
Tile 1 x 4
2431
Dark Tan

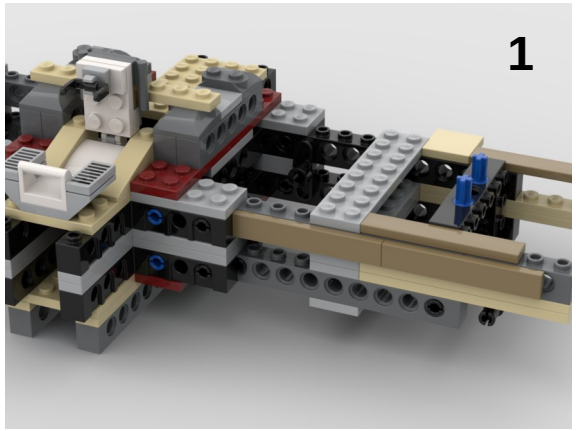
1 x
Technic, Pin 1/2 without Friction Ridges
4274
Blue

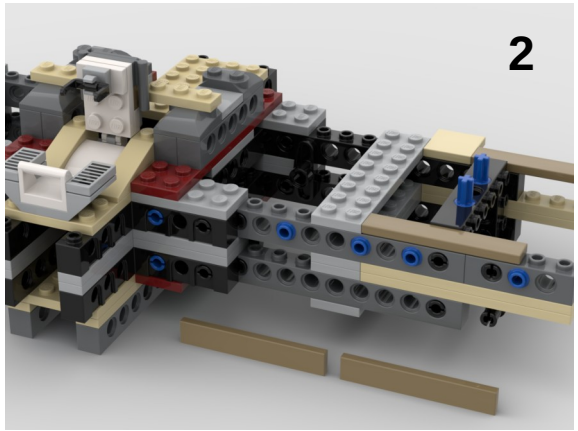
1. Locate the two vertical dark tan 1x6 tiles.

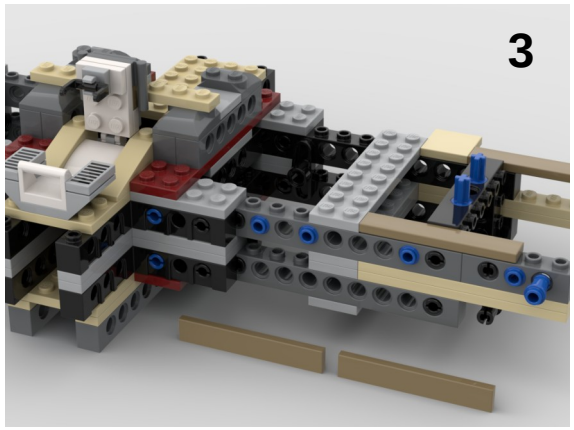
2. Remove both dark tan 1x6 tiles as shown.

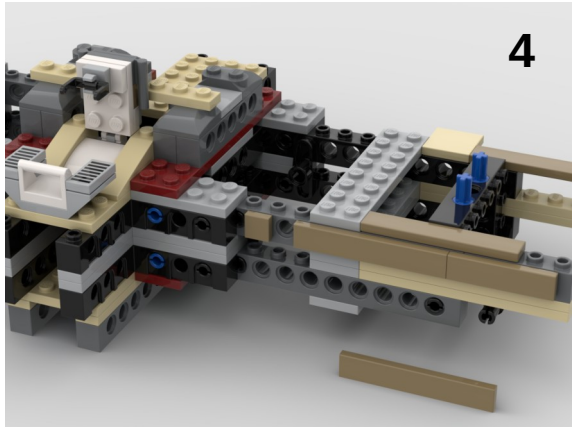
3. Reposition the two blue Technic pins on the left and add one additional blue Technic pin on the right as shown.

4. Replace one dark tan 1x6 tile and add one dark tan 1x1 tile on the left and one dark tan 1x4 tile on the right as shown.

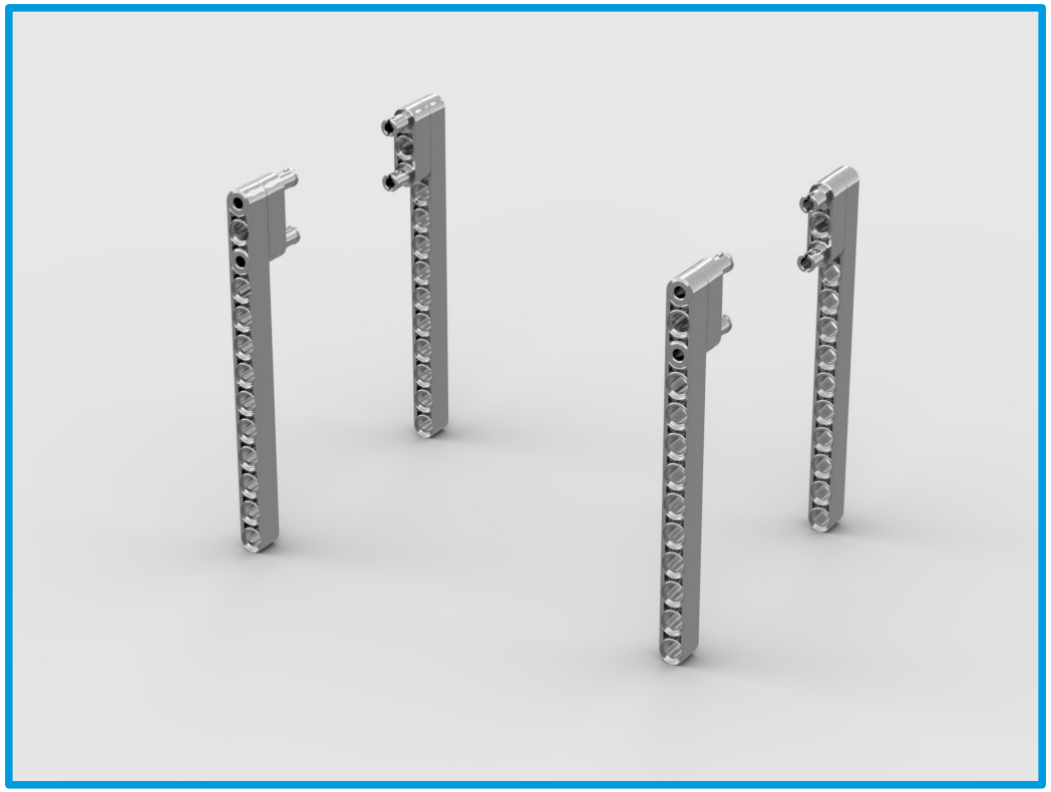


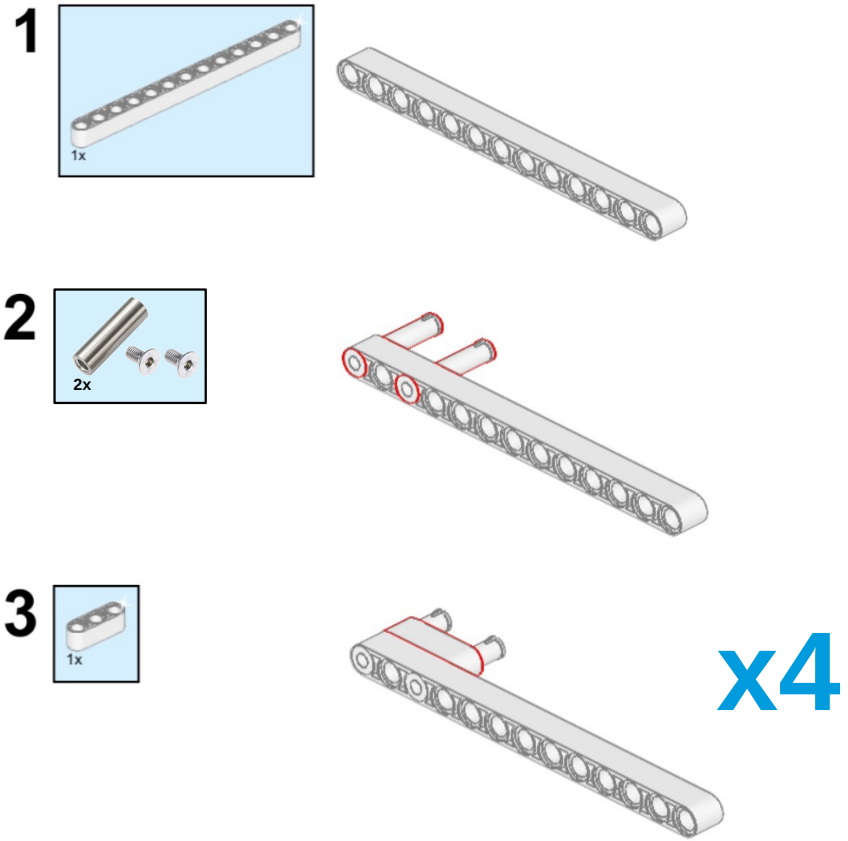




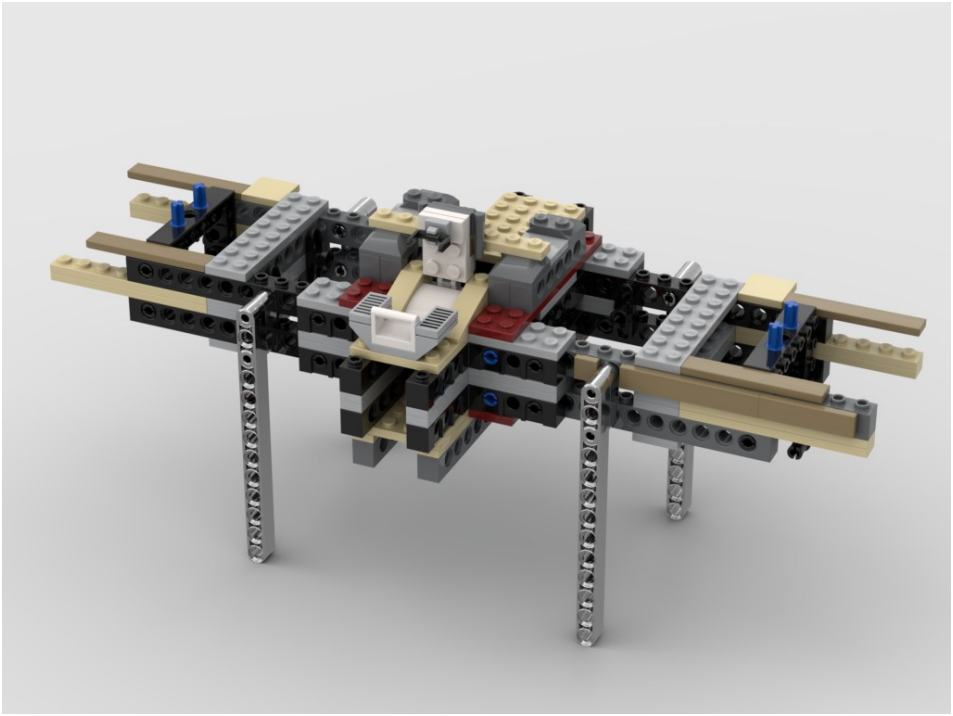


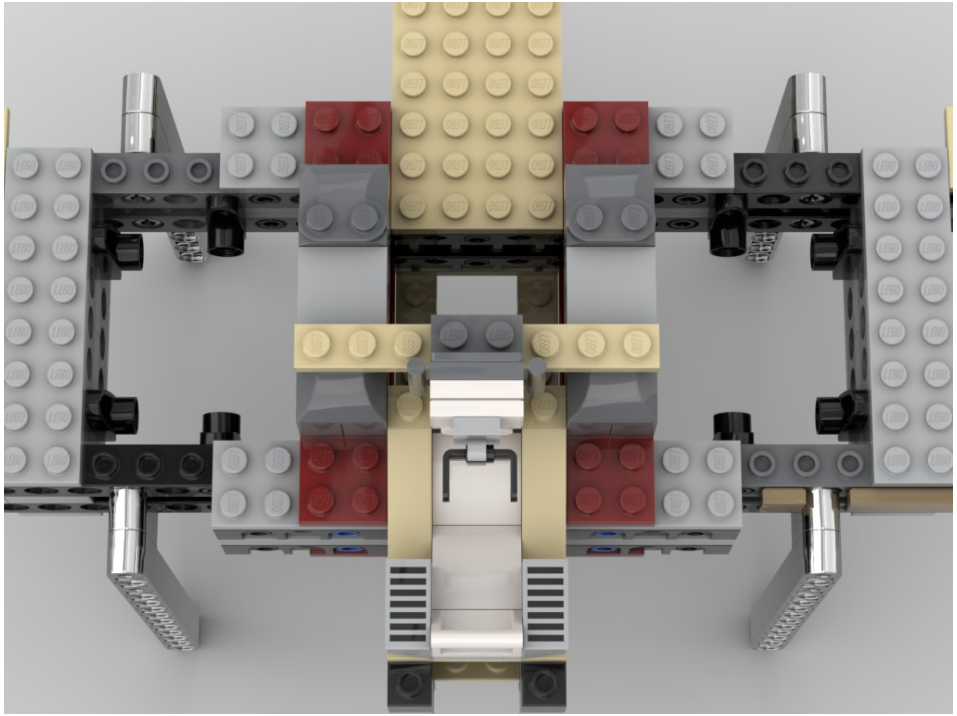
Step 3: Build Four Metal Technic Legs





Step 4: Attach the Legs to the Sub Frame



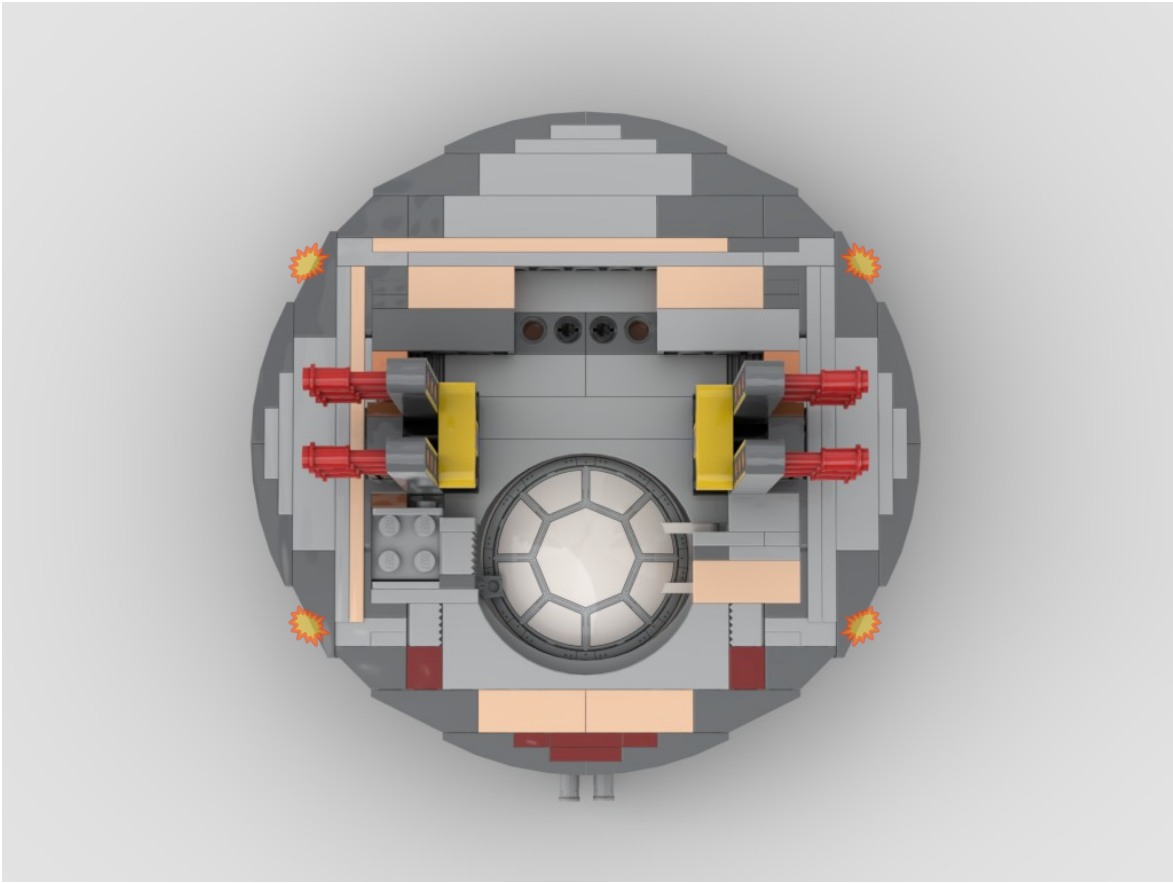


Note that you will need to temporarily remove some components of the Millennium Falcon build to allow enough space to tighten the connections with the hex keys provided in the MTP kit.

Step 5: Modify the Lower Turret

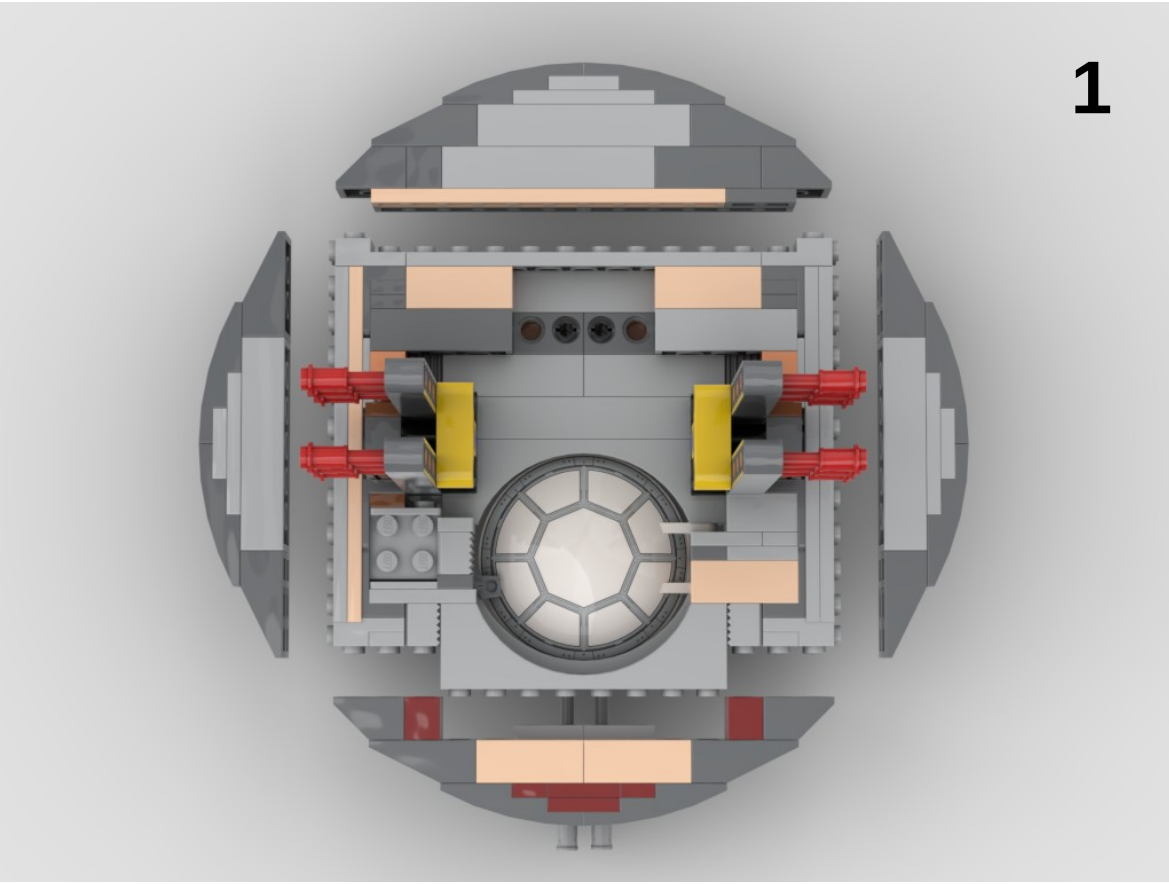
Now that the metal Technic Legs are attached to the Sub Frame, if we try to reinstall the Lower Turret, it will collide with the Legs at the points shown here.

So we now need to modify the Lower Turret to accommodate the new Legs.



Step 5: Modify the Lower Turret

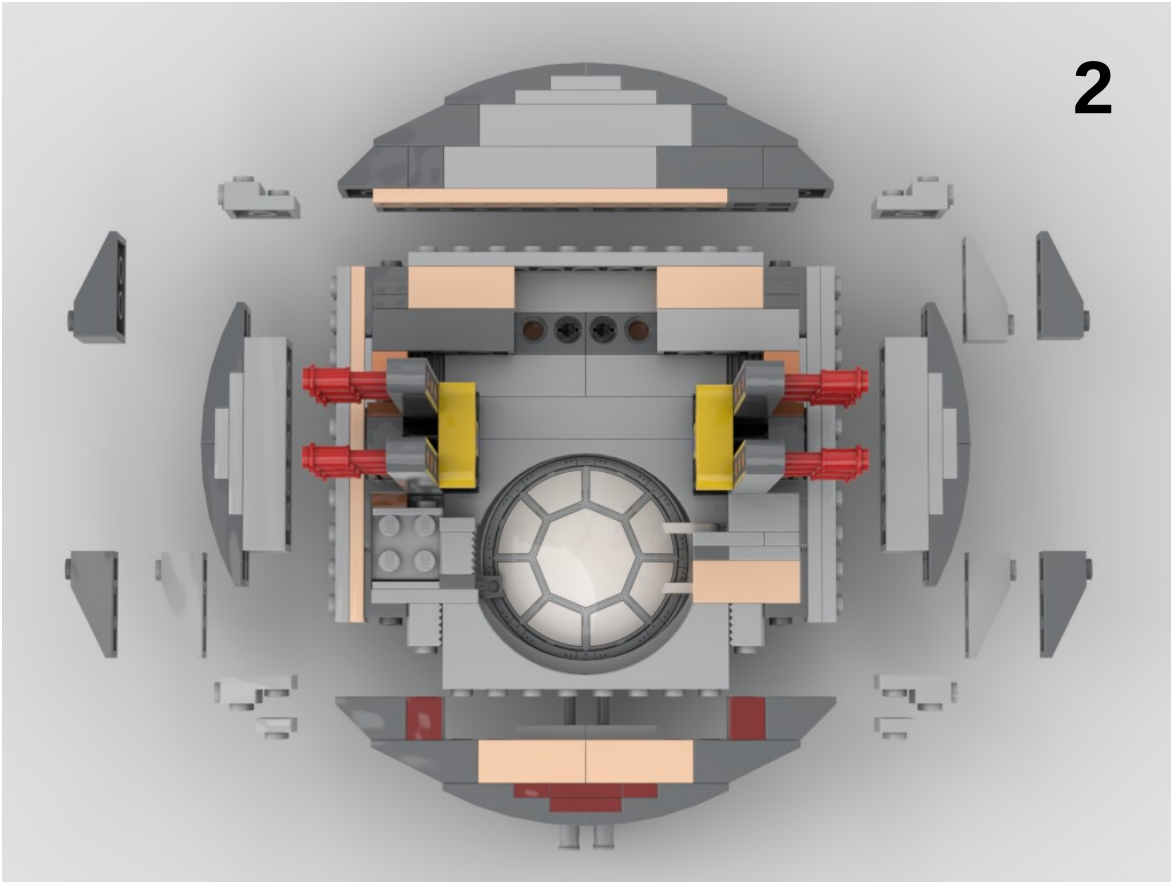
Start by detaching the four arcs from the four sides of the Lower Turret as shown to allow you to access the pieces that need to be replaced.



Step 5: Modify the Lower Turret

Remove the seven “3 stud long” slope pieces from the left and right arcs.

Also remove the four 2x2 stepped plates and two 1x2 plates from the four corners of the centre section.



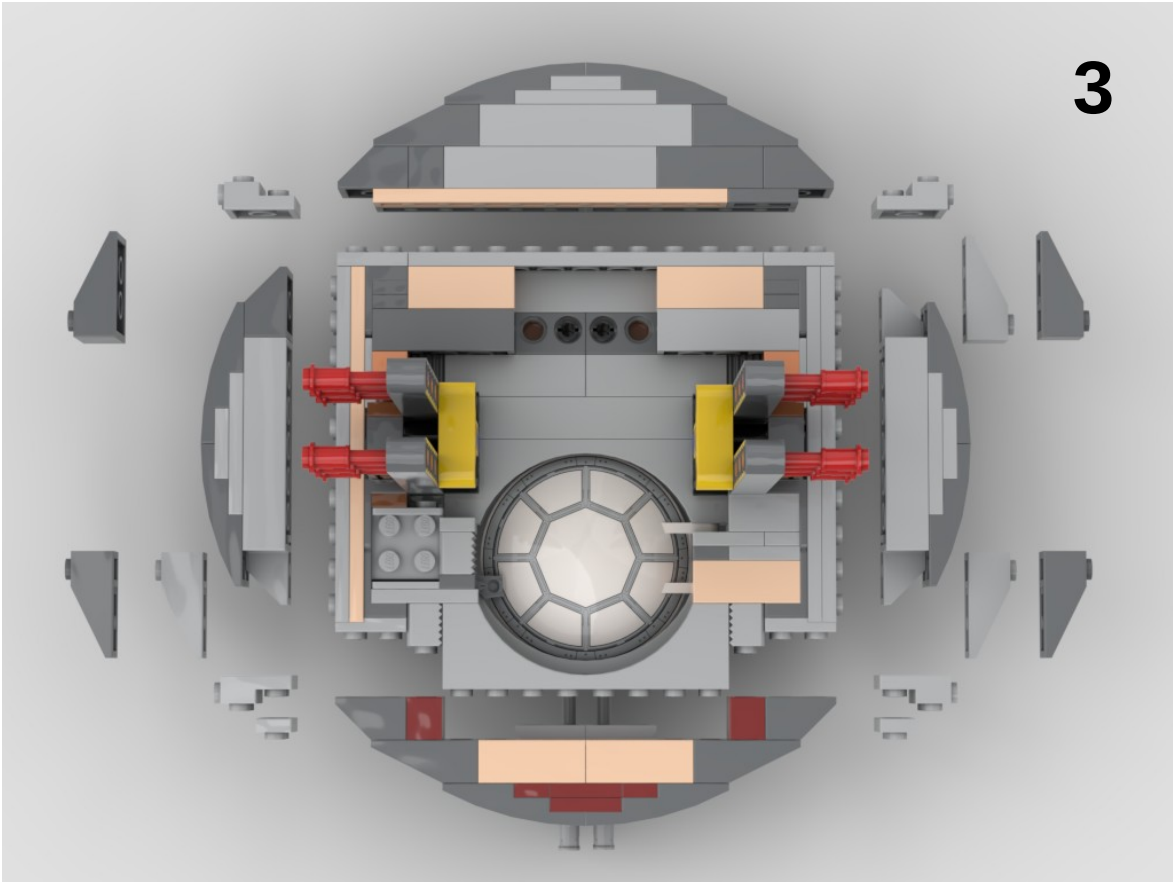
Step 5: Modify the Lower Turret

Parts Required:

1 x		Slope 45 2 x 2 3039 Dark Bluish Gray
3 x		Slope 45 2 x 1 3040 Light Bluish Gray
4 x		Plate 2 x 2 3022 Light Bluish Gray

Add the first four new “2 stud long” slope pieces to the left and right arcs as shown.

Then add four new 2x2 plates to the corners of the centre section as shown.



Step 5: Modify the Lower Turret

Parts Required:

3 x
Slope 45 2 x 1
3040
Dark Bluish Gray

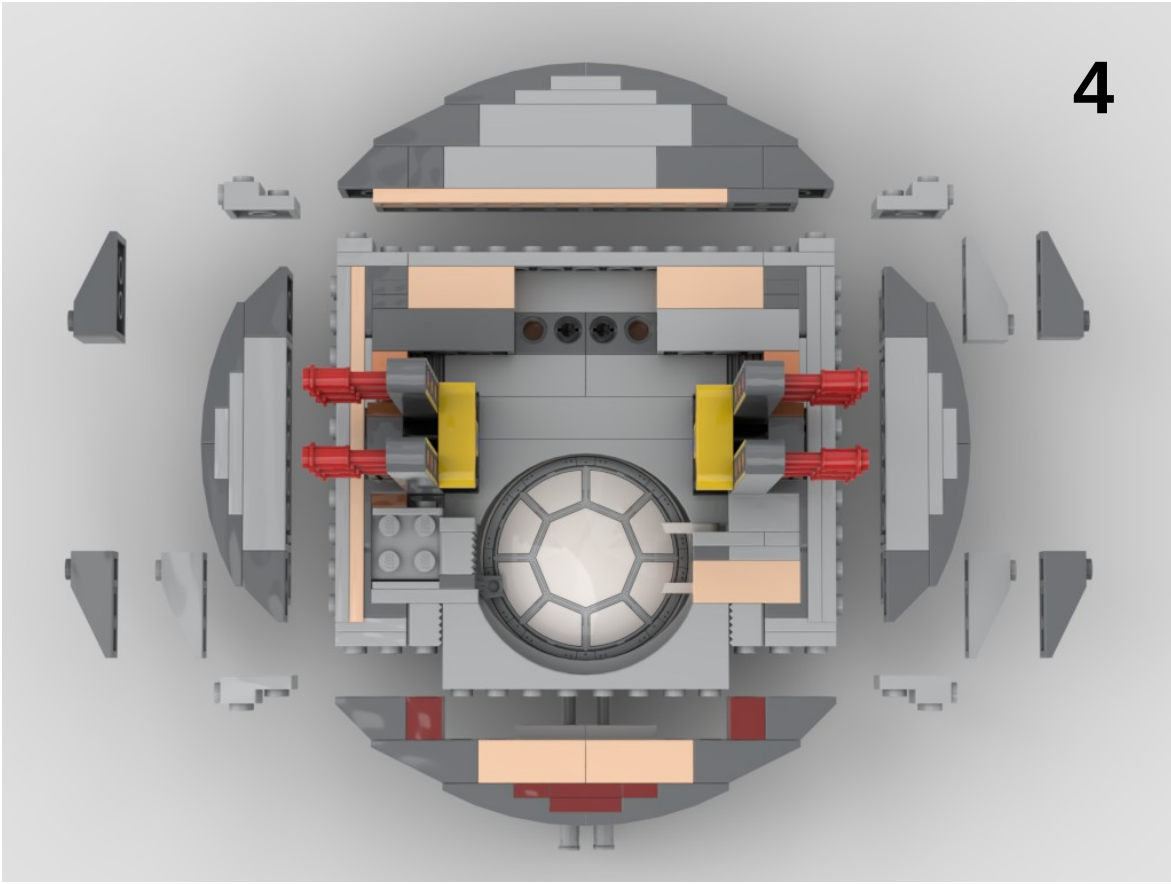
2 x
Plate 2 x 2
3022
Light Bluish Gray

And Re-Use:

2 x
Plate 1 x 2
3023
Light Bluish Gray

Add the final three new “2 stud long” slope pieces to the left and right arcs as shown.

Then add two new 2x2 plates to the bottom corners and two re-used 1x2 plates to the top corners of the centre section as shown.



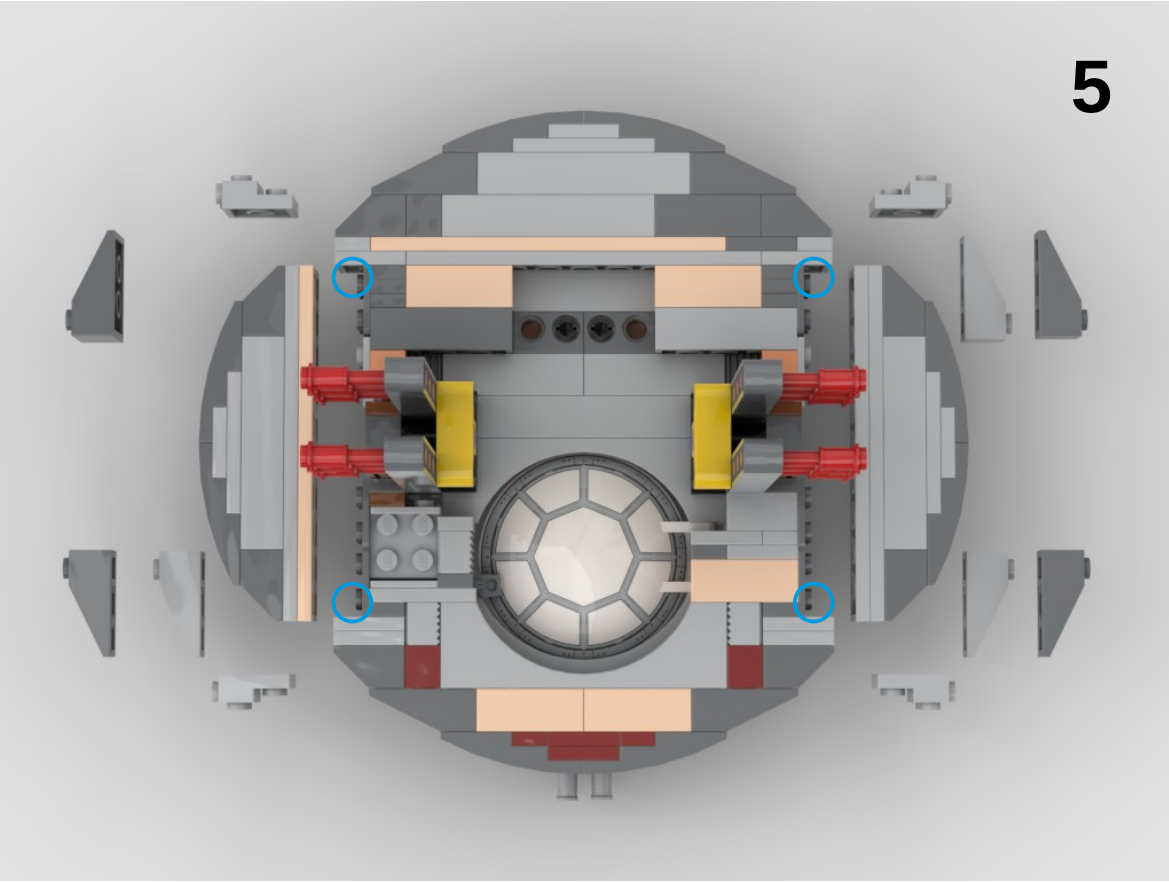
Step 5: Modify the Lower Turret

Reattach the top and bottom arcs.

Then remove the two additional plate layers from the left and right of the centre section and reattach them to the left and right arcs as shown.

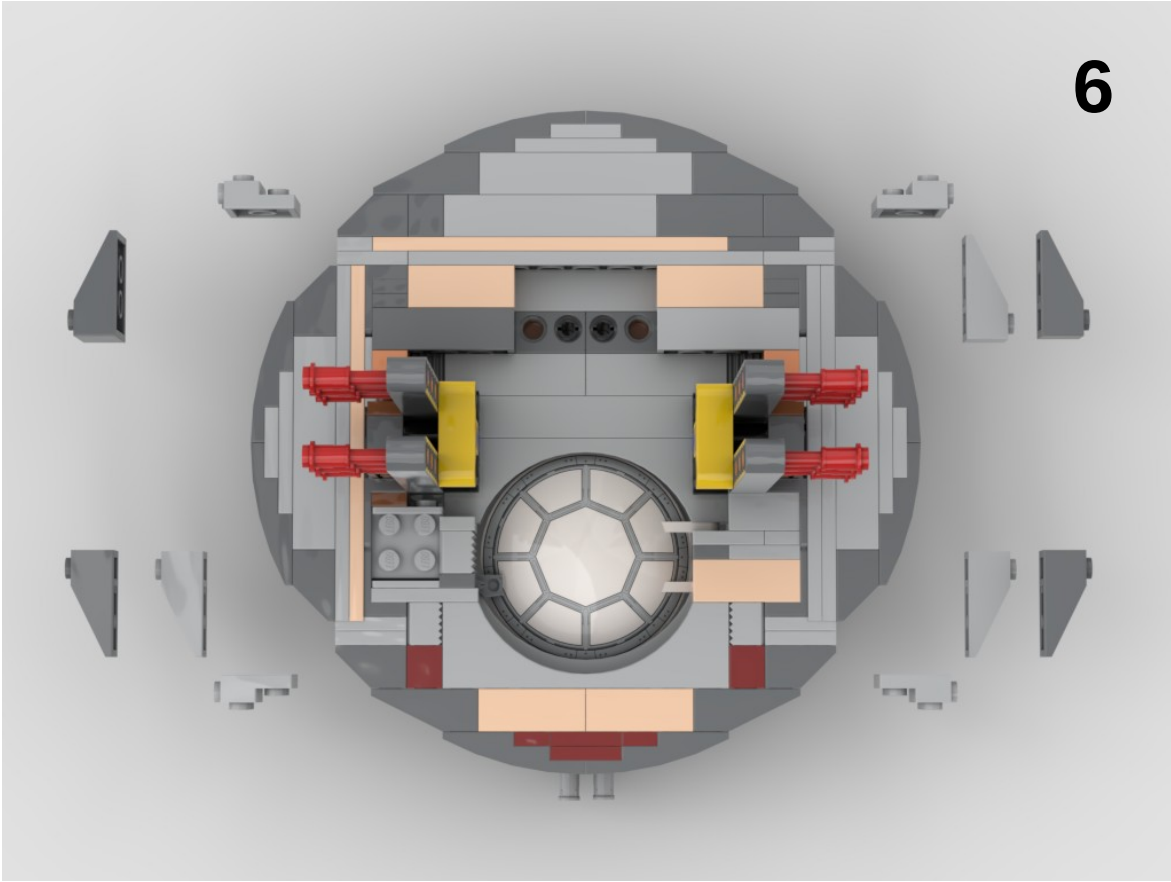
Now comes the sticky part. We found that following these modifications the strength of the Lower Turret was compromised to the point where we chose to Kragle it to avoid it falling apart when handled.

So we begrudgingly added a small bead of clear epoxy to the four inside corners circled in blue :(



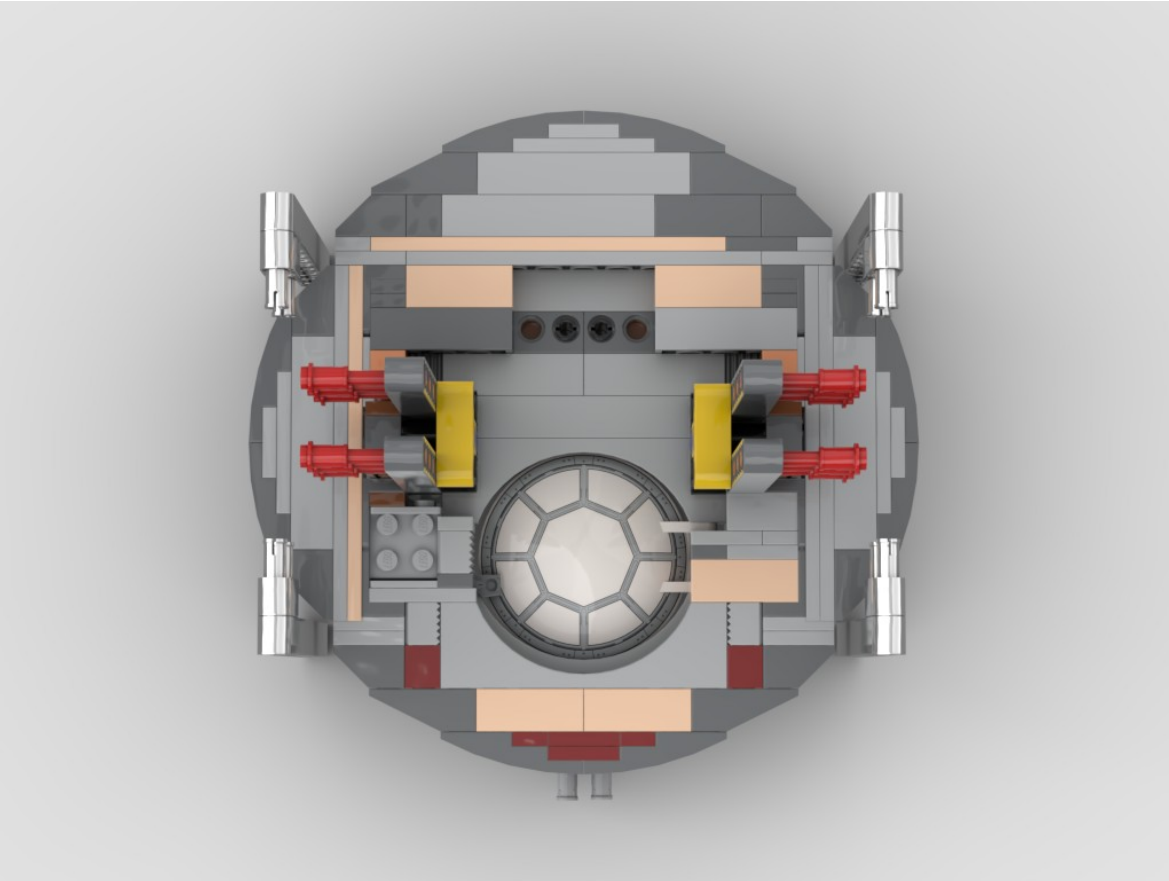
Step 5: Modify the Lower Turret

Reattach the left and right arcs to the centre section and allow time for the epoxy to dry. (If you've also chosen to Kragle it)

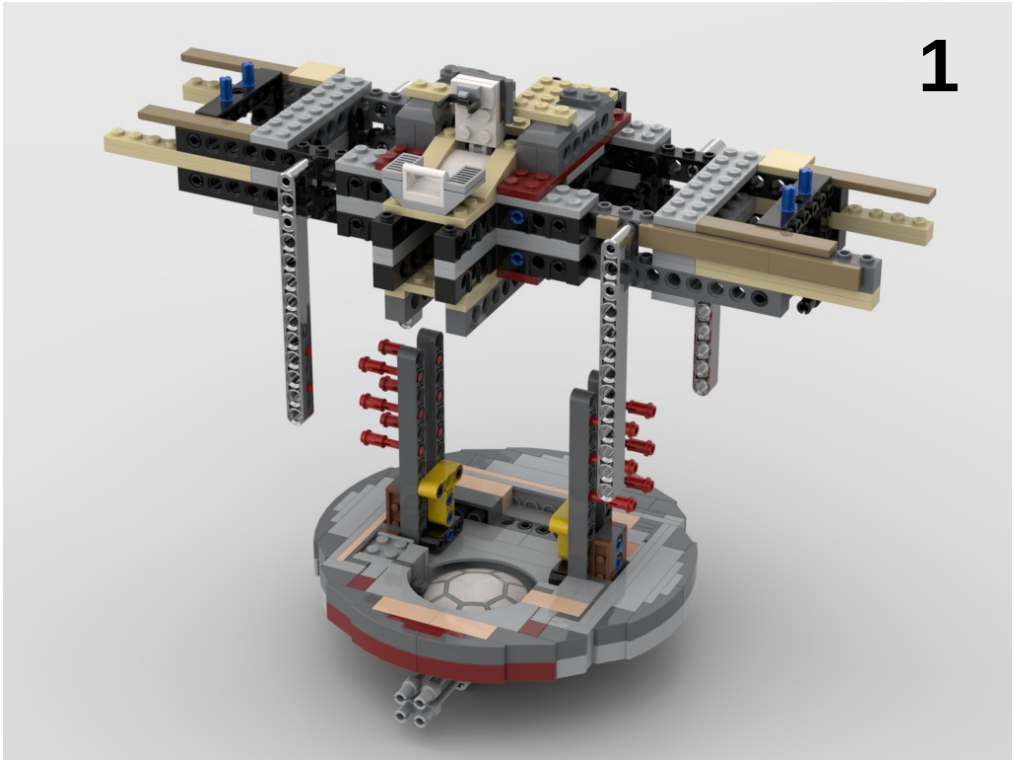


Step 5: Modify the Lower Turret - Completed!

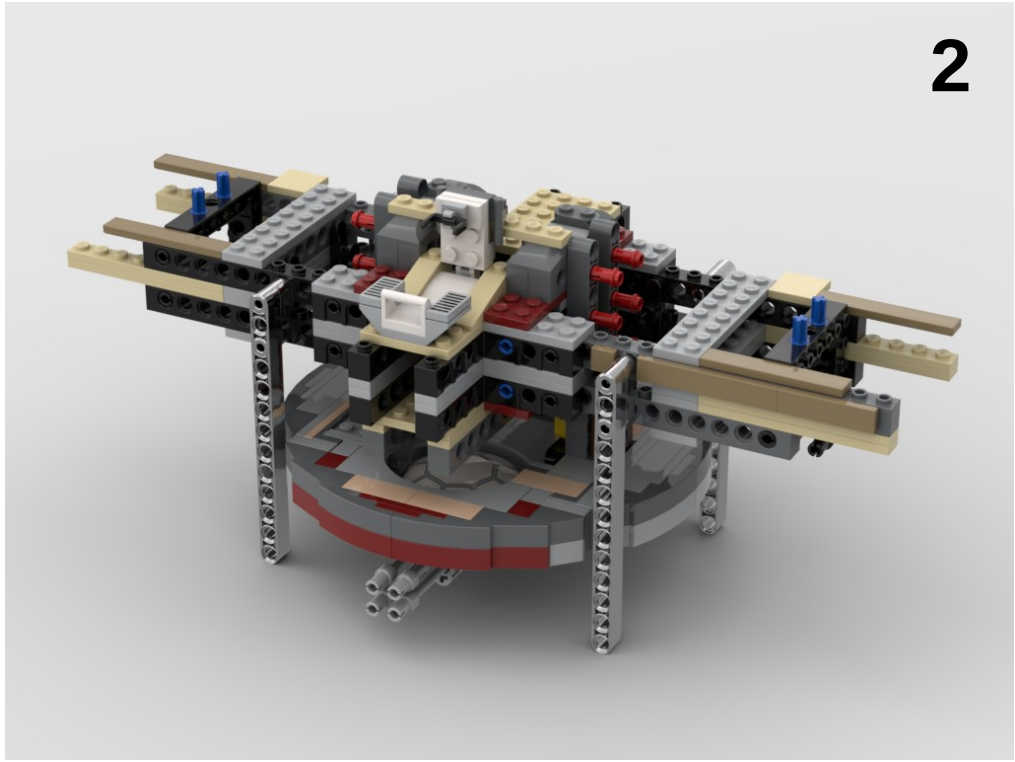
The modified Lower Turret can now accommodate the metal Technic Legs.



Step 6: Reinstall the Modified Lower Turret



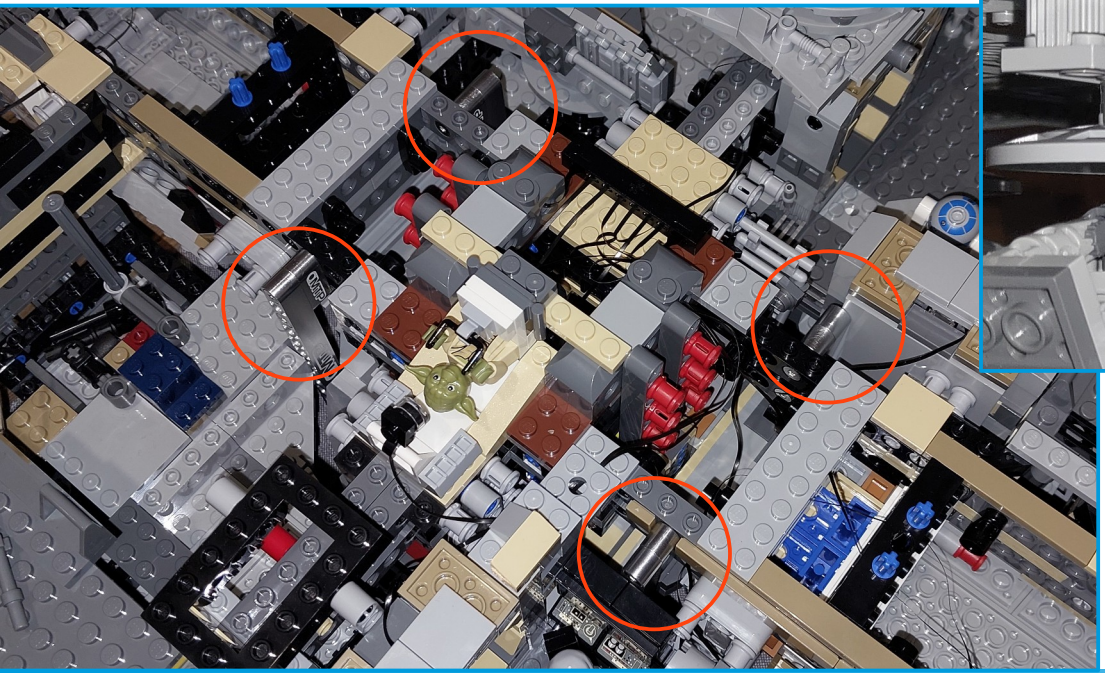
Insert the Lower Turret into the bottom of the build

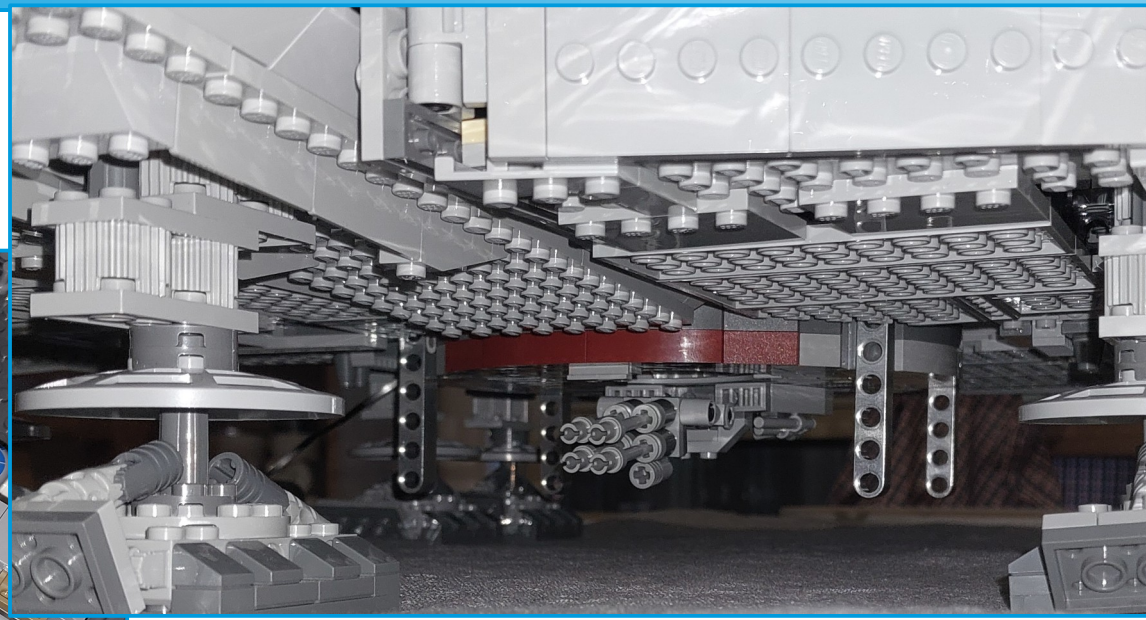


Reinsert the 12 red Technic pins

Ship Modifications Complete!

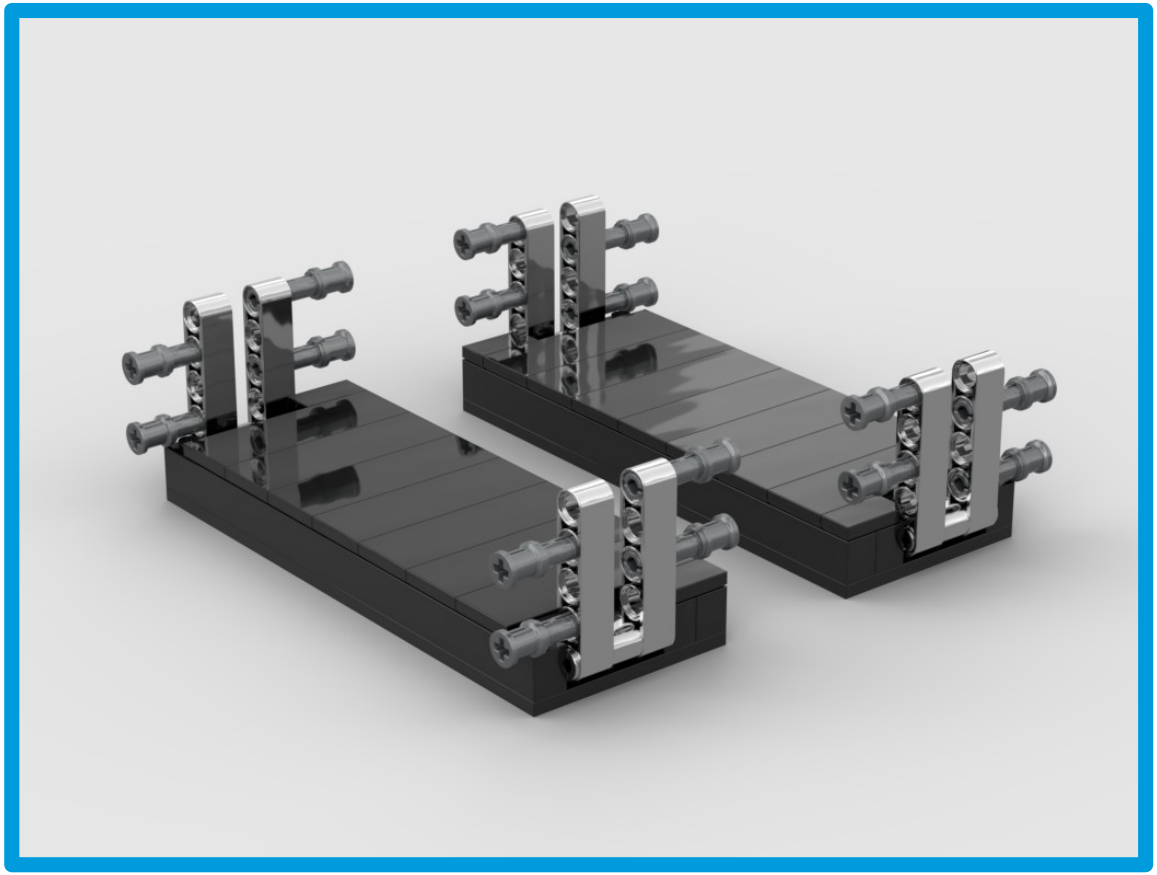
Your build should now look something like this...





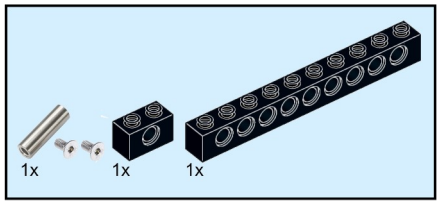
“I've made a lot of special modifications myself”

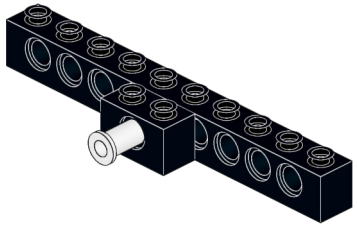
Step 7: Build Two Bracket Bases



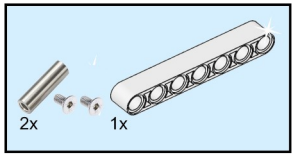
Step 7: Build Two Bracket Bases

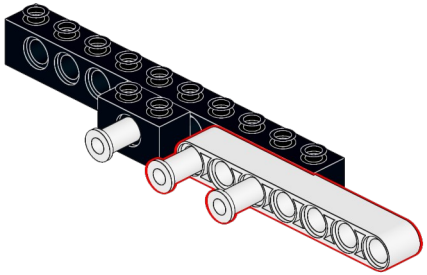
1





2

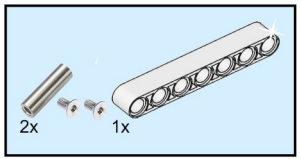


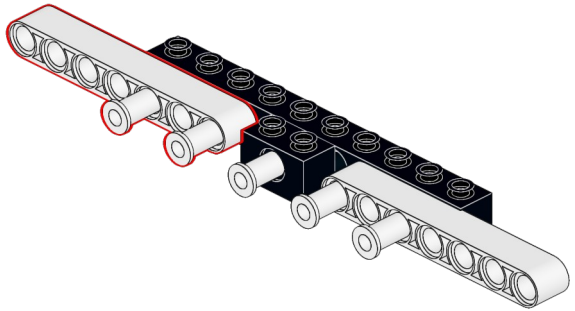


x2

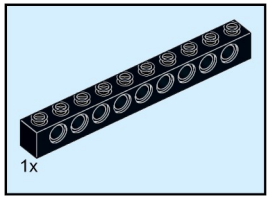
Step 7: Build Two Bracket Bases

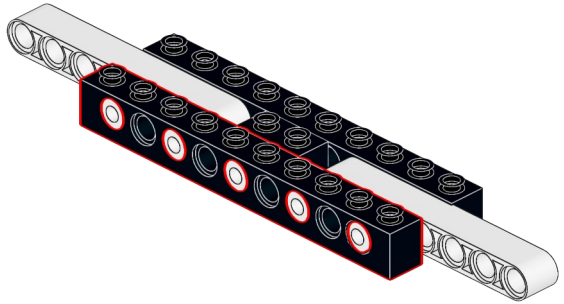
3





4

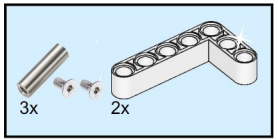


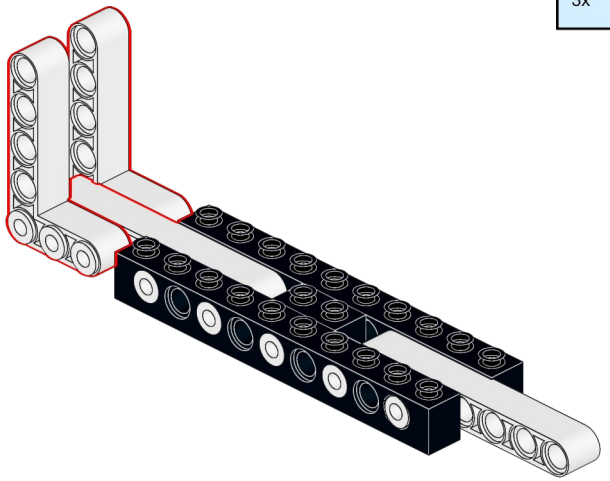


x2

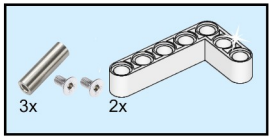
Step 7: Build Two Bracket Bases

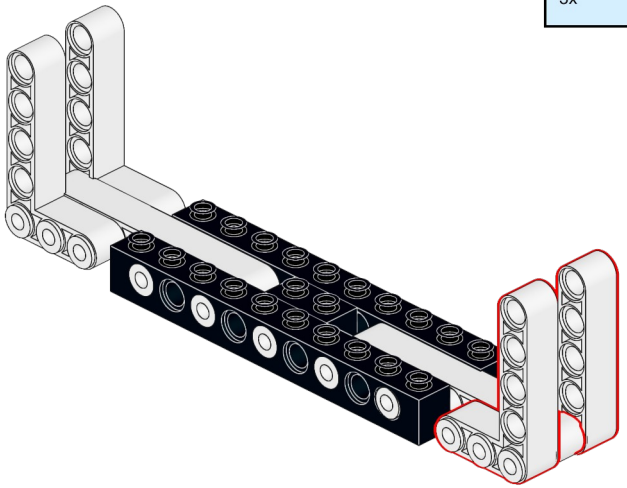
5





6

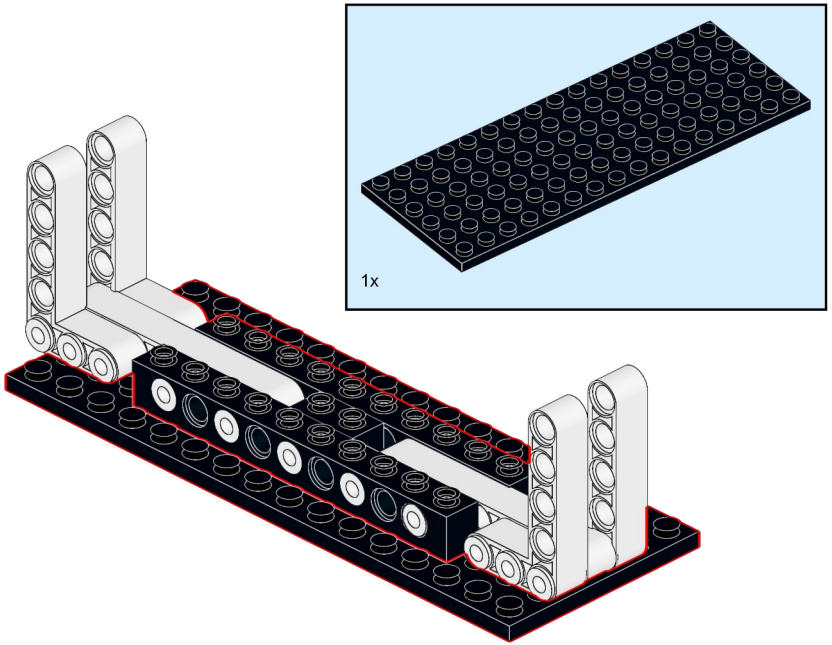




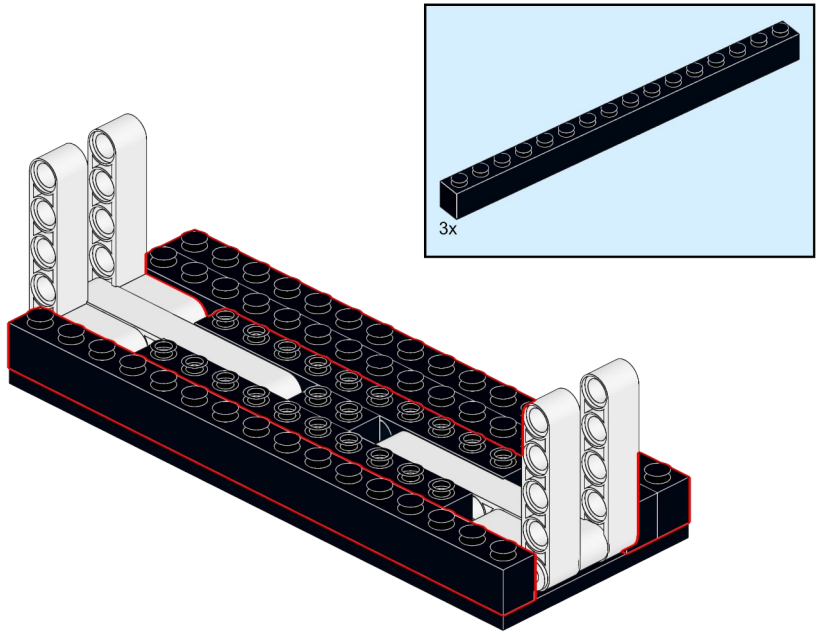
x2

Step 7: Build Two Bracket Bases

7



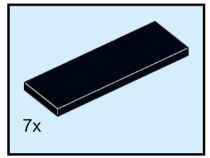
8

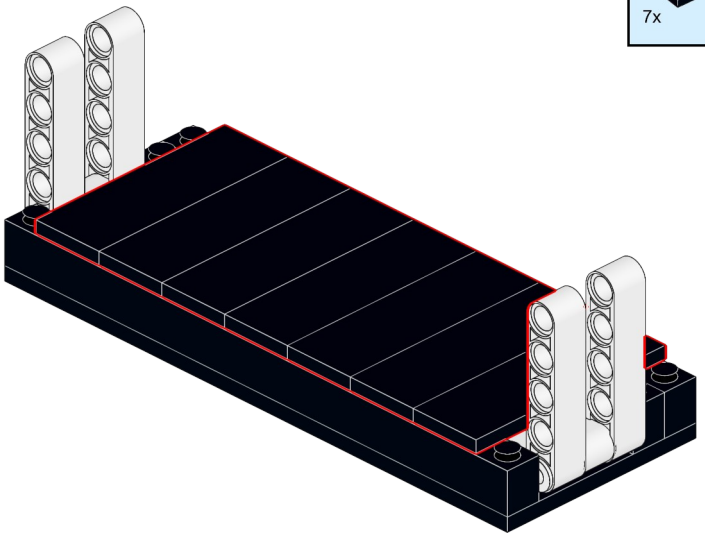


x2

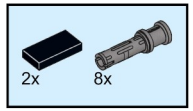
Step 7: Build Two Bracket Bases

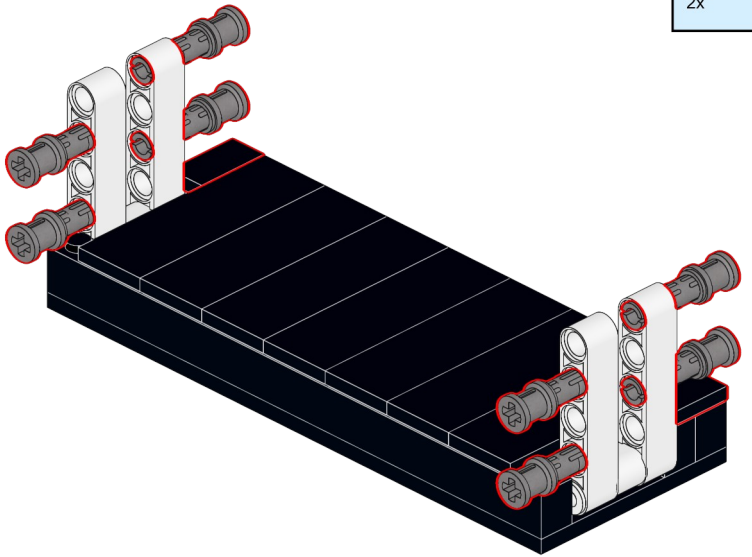
9





10





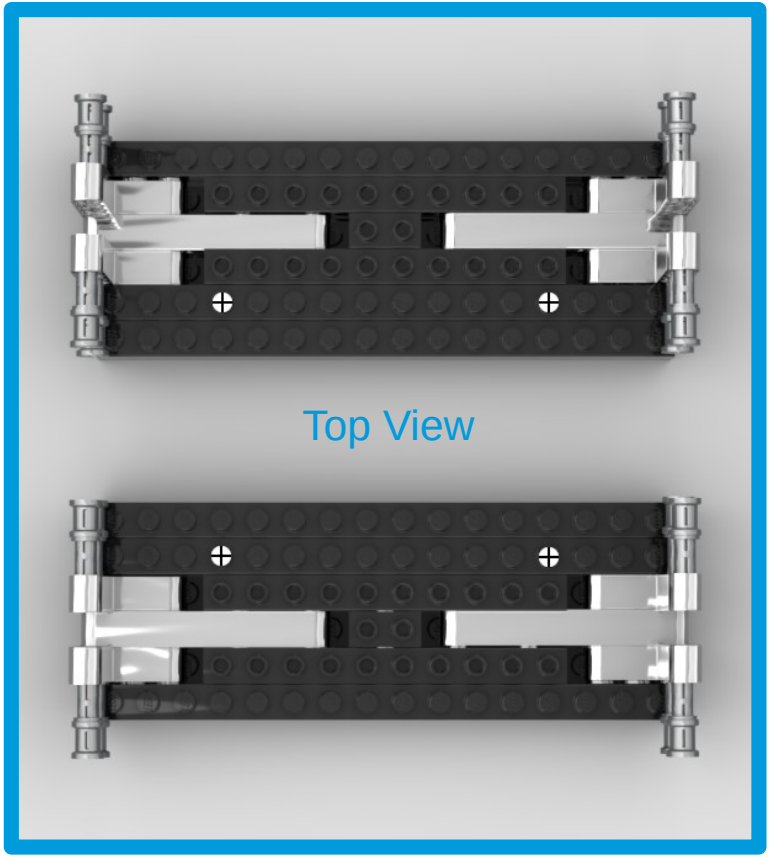
x2

Preparing the Bracket Bases for Mounting

To mount the bracket, we drilled two holes in each bracket base. We recommend drilling these holes in the middle of the fourth stud from each end of the 1x16 brick as shown.

We disassembled the bases and started by drilling tiny holes in the middle of the studs from the top of the brick. We then widened the holes by drilling from the bottom of the brick with a larger drill bit. We then reassembled everything except the top black tiles and used the brick as a guide when drilling through the bottom 6x16 plate from the top. Finally, we added the top tiles and carefully drilled through them from the bottom to ensure that we finished with straight holes for the bolts.

Mind your fingers when drilling!

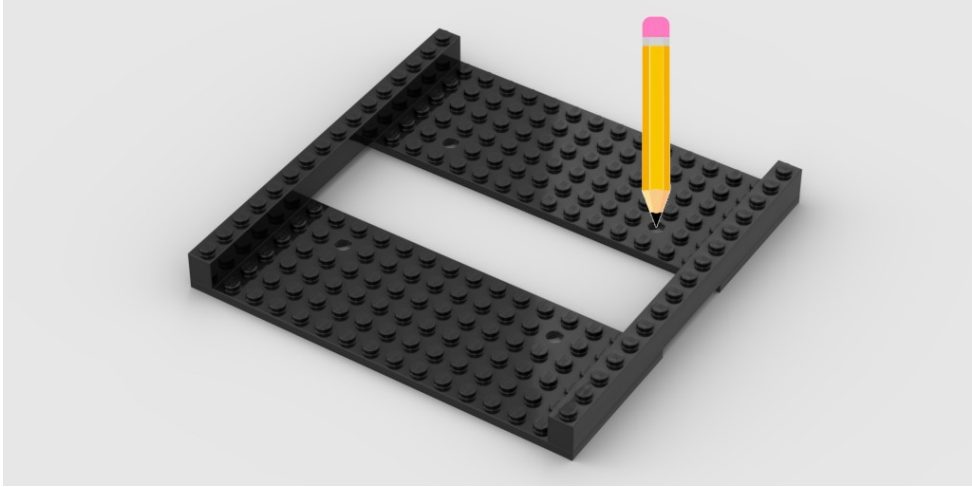


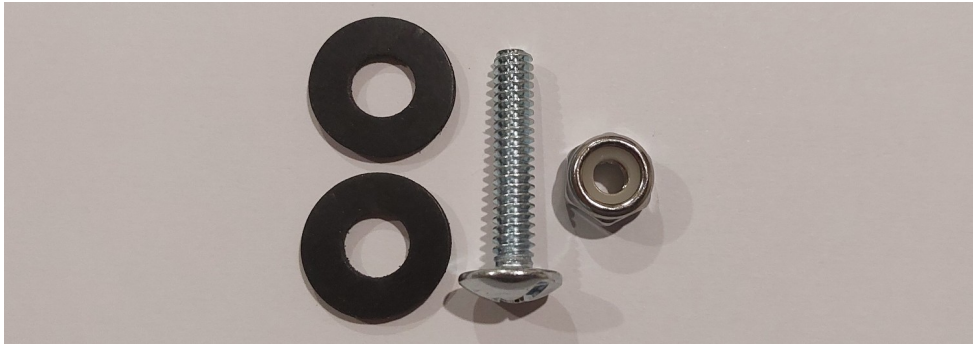
Preparing the Bracket Bases for Mounting

When attaching the bracket bases, it's important to ensure that the complete bracket assembly is a perfect 16x16 stud square. This will practically eliminate any bowing of the ship as the bracket helps to keep the Sub Frame straight as long as the bases have the required spacing.

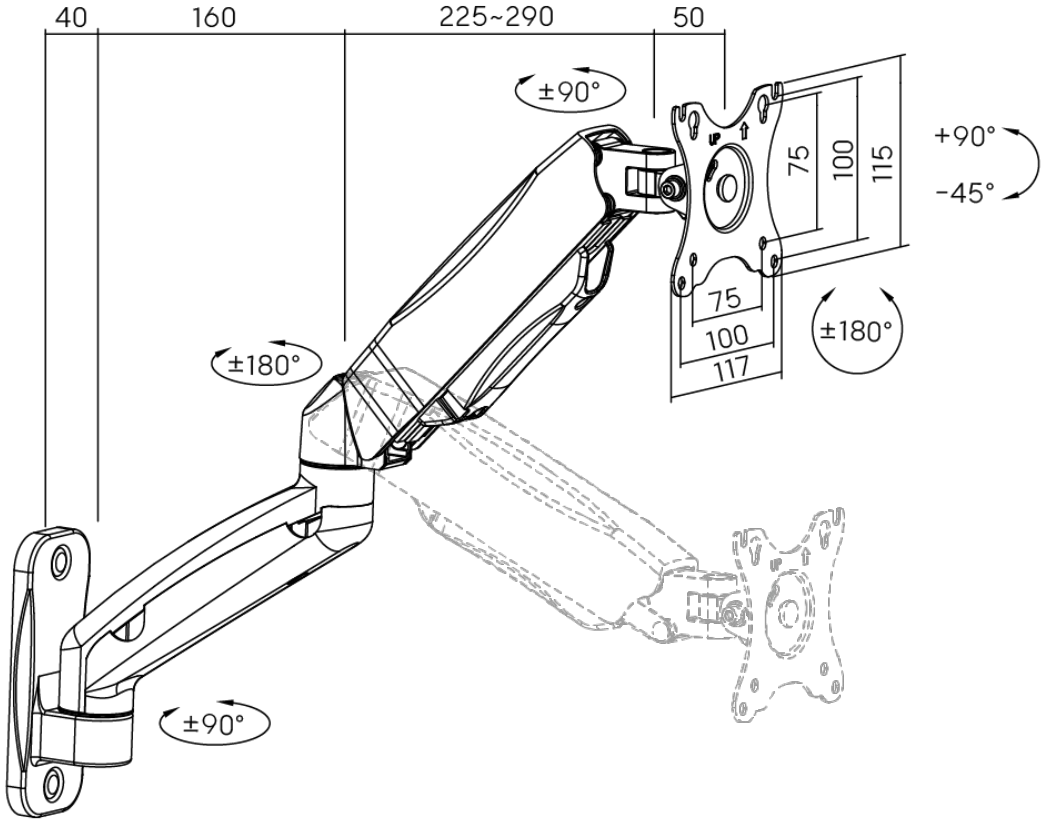
We suggest using two of the 1x16 bricks to lock the 6x16 plates into the right position (as shown) when you are marking the item that you are attaching to.

The mounting hardware that we used when attaching to the monitor swing arm was four 3/16" x 25mm stainless steel mushroom head bolts each with a 3/16" lock nut and two rubber washers (top and bottom) as shown.





Monitor Swing Arm Option

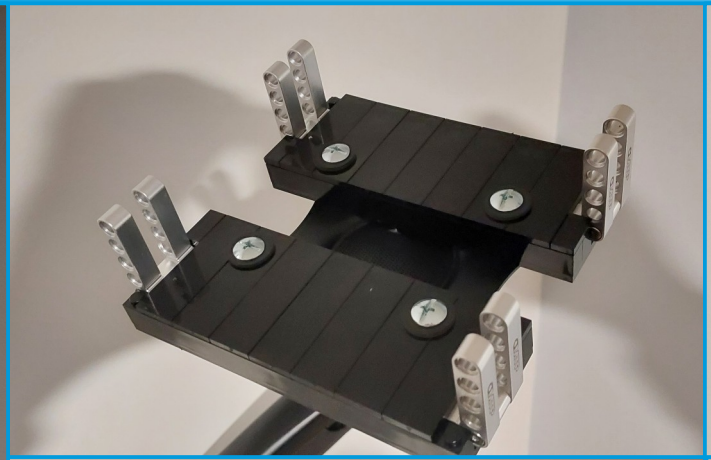


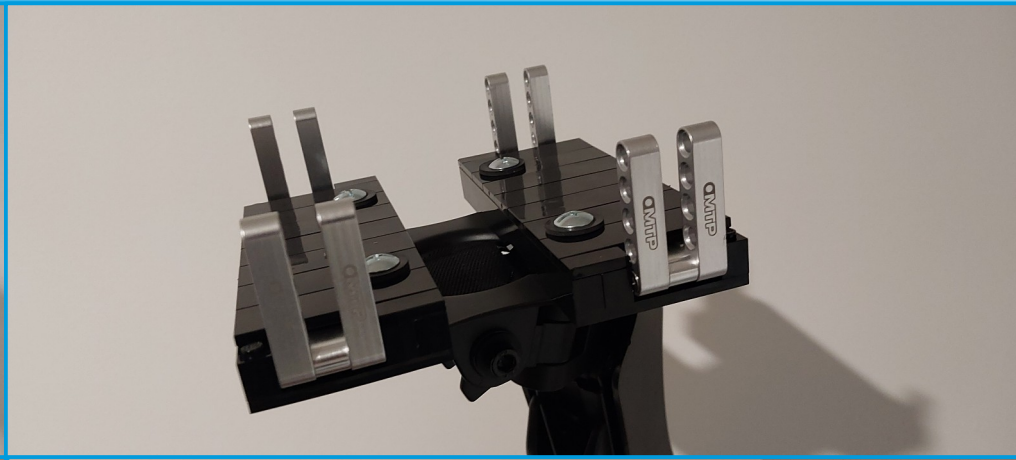
The monitor swing arm that we've used for our mounting example in the YouTube video was the LDA31-112.

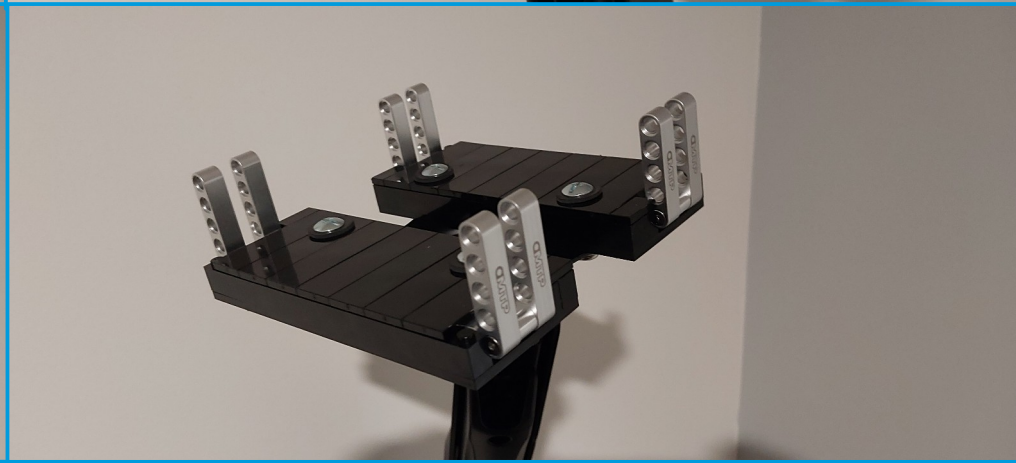
Click Here for details of this swing arm.

If you decide to use the same swing arm, a Google search for "LDA31-112" should produce some options to buy from a local seller. For info, this item cost us AU$80 from a local Australian seller.

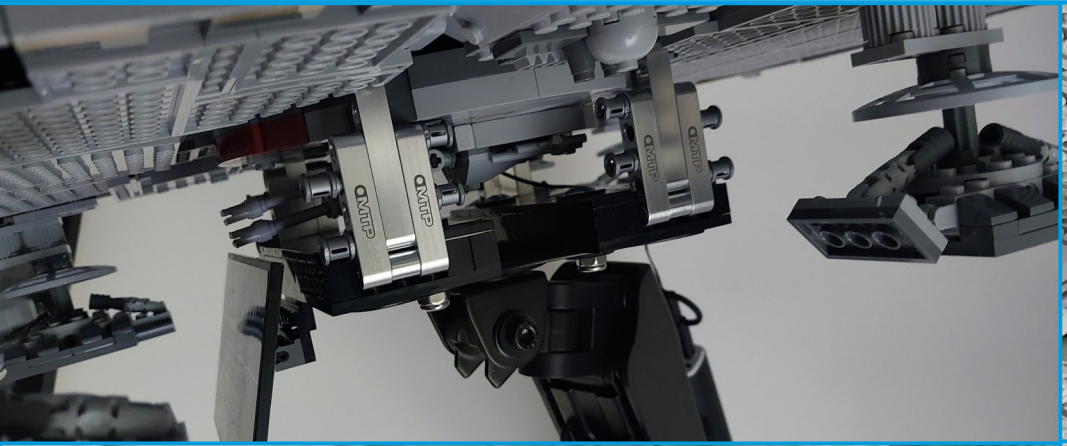
Using the Bracket with a Monitor Swing Arm

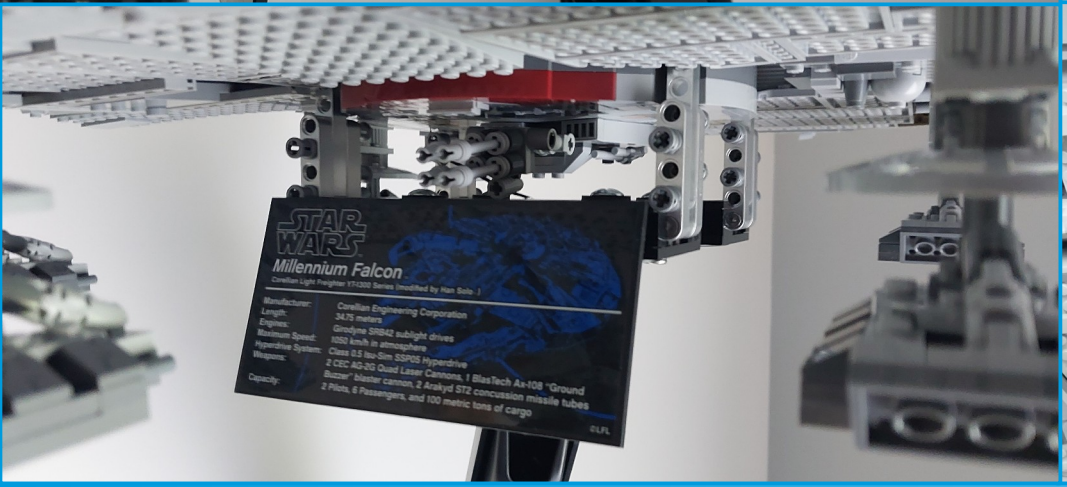


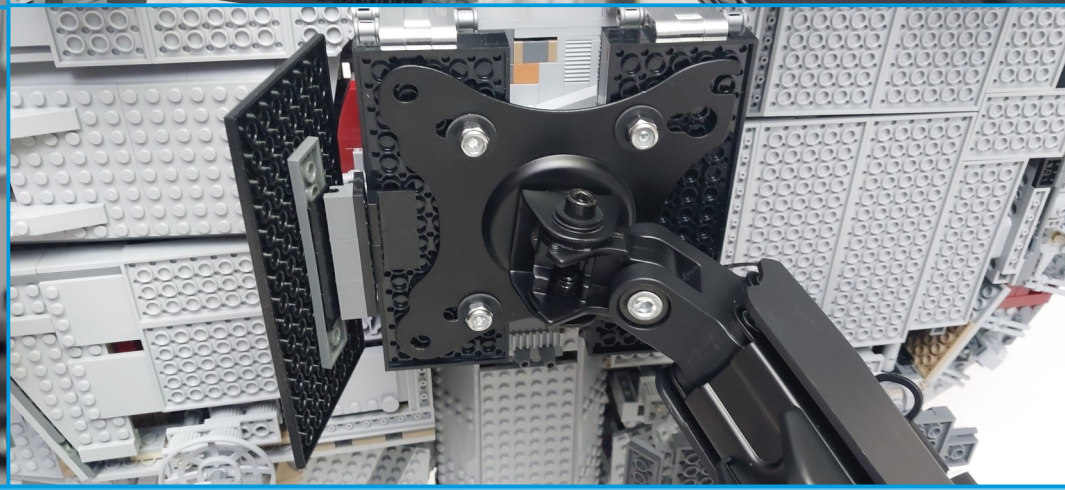




Using the Bracket with a Monitor Swing Arm




STAR WARS
Millennium Falcon
Corellian Engineering Corporation
34.75 meters
Hyperdrive System:
Class 0.5 Isu-Sim SSP05 Hyperdrive
Weapons:
2 CEC AG-2G Quad Laser Cannons, 1 BlasTech Ax-108 "Ground Buzzer" blaster cannon, 2 Arakyd ST2 concussion missile tubes
Capacity:
2 Pilots, 6 Passengers, and 100 metric tons of cargo
©LFL



Mounting The Display Plaque Under The Bracket

And finally, if you are looking to attach the Display Plaque to the underside of the bracket as we have in the YouTube video, you will need the optional parts below to reconfigure the Display Plaque as shown.

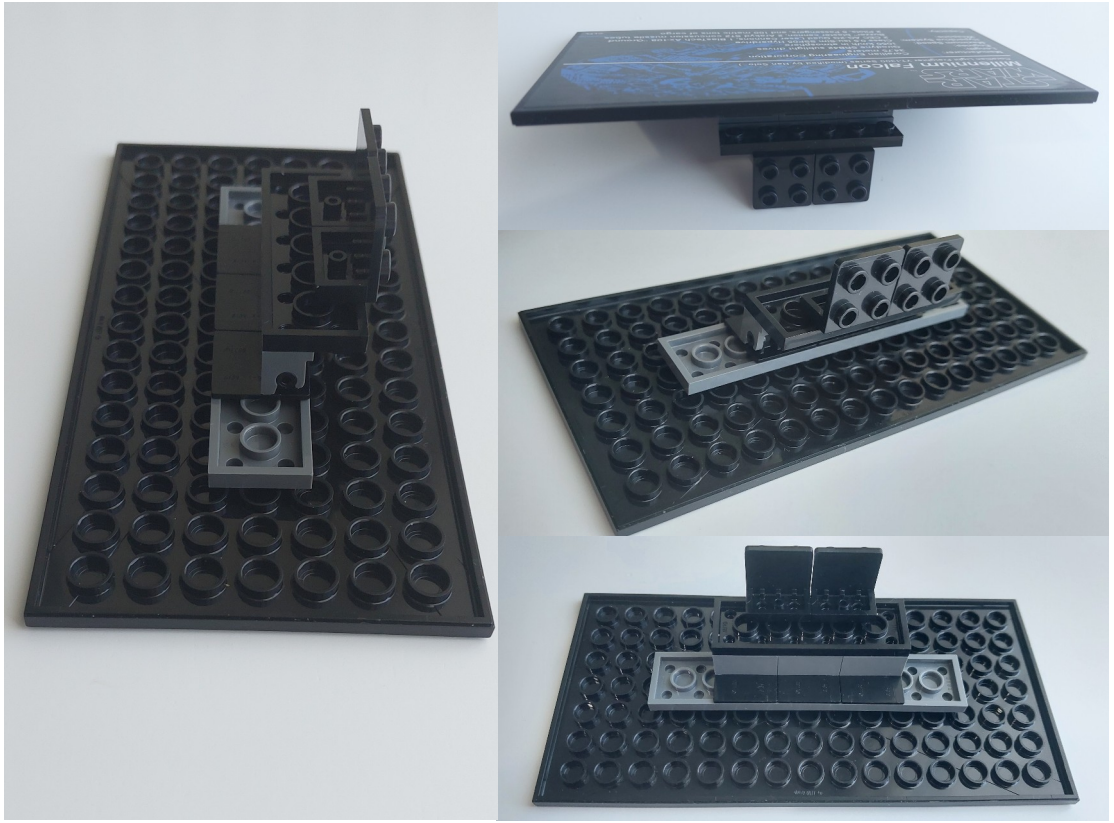
Parts Required:

2 x

Bracket 1 x 2 - 2 x 2
44728
Black

1 x

Plate 2 x 6
3795
Black



We Hope That This Has Helped You Out